



Re: Ice Melt Products on Carlisle EPDM, TPO and PVC Roof Membranes

This letter outlines Carlisle's position as it relates to the use of chemical based ice melting compounds on Carlisle EPDM, TPO and PVC roof membranes.

The main components in ice melting salts include Calcium Chloride, Magnesium Chloride and Sodium Chloride.

With limited use, the effects of these minerals and chemicals to Carlisle's EPDM, TPO and PVC membrane is generally negligible meaning it should not have a negative impact on the membranes performance. However, this does not mean that the use of ice melt products should be the primary means of snow and ice removal from the roof system.

Ice melts should be for occasional discretionary use and in small concentrated areas. Repetitive use and in large quantity doses, ice melt salts will result in EPDM, TPO and PVC membrane deterioration. Damage or deterioration of the Carlisle roof membrane caused by ice melt salts are not covered under the terms and conditions of the Carlisle warranty. Remediation of damaged areas as a result will be the owner's sole responsibility.

In addition to repeated use of ice melting salts, a concern exists for potential corrosion of exposed metal work used in the roof system assembly. Metal provided and covered under the Carlisle warranty that becomes corroded from the use of ice melt salts will not be covered under the terms and conditions of the Carlisle warranty.

If there are any questions or additional communication is needed related to this subject matter, please feel free to contact us.

Sincerely,

A handwritten signature in black ink that reads "Kenneth Gingerich". The signature is written in a cursive style.

Kenneth Gingerich
Manager, Project Review and Design
Carlisle SynTec Systems